Client	BRUHAT BANGALORE MAHANAGARA PALIKE		
Estimate Amount:-	NAME OF THE PROJECT: Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency		
Approved Amount	Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149		
Name of Contractor:	25000000.00	WORK SLIP-2	
Tender premium:-	22001730.00		
	Sri. S D Venkatesh Gowda		
	(+) 1% (Above)		

Sl. No.	Description of Work	Unit	Qty as per Quoted Rate			Total Executed Quantity	Qty. upto 125%			Qty. above 125%			Total Amount	Excess amount	Excess Amount Paid in 1st RA Bill	Now to be paid Excess Quantity amount	Savings	Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amt						
2	KSRB 2-2 2 Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc. either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m including breaking of clods complete as per specifications	Cum	127.77	489.77	62578.00	391.83	159.71	489.77	78223.00	232.12	489.77	113684.00	191907.00	129329.00	53247.00	76082.00		
4	KSRB 4-1 3 Providing and laying in position plain cement concrete of mix 1 4 8 with OPC cement @ 180kgs. with 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation, including cost of all materials labour, HOM of machinery curing complete as per specifications	Cum	64.42	5565.26	358515.00	178.44	80.53	5565.26	448143.00	97.92	5565.26	544938.00	993081.00	634566.00	0.00	634566.00		
6	KSRB 2 3 Filling available excavated earth (excluding rock) in sides of foundations upto plinthin layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming afterwatering with lead upto 50 m and lift upto 1.5 m including cost of all labour complete as perspecifications	Cum	111.95	219.25	24546.00	385.51	139.94	219.25	30682.00	245.57	219.25	53843.00	84525.00	59979.00	47620.00	12359.00		
7	KSRB 5 2 2 Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2 m apart in each course including cost of materials, labour, curing complete as per specifications	Cum	148.40	4902.06	727466.00	321.50	185.50	4902.06	909333.00	136.00	4902.06	666697.00	1576030.00	848564.00	703545.00	145019.00		
9	KSRB 4-6 1 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons	Sqm	45.00	281.43	12665.00	116.34	56.25	281.43	15831.00	60.09	281.43	16910.00	32741.00	20076.00	15787.00	4289.00		
12	KSRB 4-6 2 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specificaiton	Sqm	16.14	436.32	7043.00	210.27	20.18	436.32	8803.00	190.09	436.32	82942.00	91745.00	84702.00	37068.00	47634.00		
16	KSRB 5-14 Providing and constructing non load bearing wall with solid concrete blocks having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications KBS No. 5.4 with solid concrete blocks of size 40X20X20cm	Sqm	189.00	1049.35	198328.00	365.34	236.25	1049.35	247909.00	129.09	1049.35	135457.00	383366.00	185038.00	74521.00	110517.00		
18	Providing and fixing granite flooring in combination of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thcl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification	Sqm	75.32	3791.08	285545.00	384.96	94.15	3791.08	356931.00	290.81	3762.17	1094073.00	1451004.00	1165459.00	0.00	1165459.00		
21	Providing and laying pattern flooring for staircase treads and risers using the combination of 20mm thick ruby red granite @ 66%,20 mm thick grey granite @ 20%, 20mm thick, 20mm thick black granite 14% The granite materials are laid on existing bed of CM 1 3 20mm thick pointed with colour pigment, including full rounding for nosing, flaming the ruby red granite for 50 mm wide curing etc., complete as per specification.	Sqm	11.40	7848.85	89477.00	20.20	14.25	7848.85	111847.00	5.95	7818.85	46496.00	158343.00	68866.00	0.00	68866.00		
22	KSRB 14 14-5 Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. Specification No. KBS. (Ceramic anti skid Tiles of size 400 x 400mm on a bed of 20 mm thick)	Sqm	8.35	1470.40	12278.00	73.19	10.44	1470.40	15348.00	62.76	1384.23	86869.00	102217.00	89939.00	0.00	89939.00		

excess amount

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			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amt						
23	K[illegible]4-17.1 : Providing skirting, dado, rises of steps with White glazed tiles 20x20cms 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications	Sqm	56.85	1274.05	72430.00	69.52	69.52	1274.05	88574.00	0.00	0.00	0.00	88574.00	16144.00	0.00	16144.00		
24	KSRB9.4.1-Providing Math/Nandi wood frames of doors ,windows, clerestory windows, ventilatorsand other frames,wroughtframed or assembled including making plaster grooves(excluding cost of cement concrete and side clamps) but including cost of materials,labour ,HOM of machineries, complete as per specifications.	Cum	0.20	79842.20	15969.00	0.31	0.25	79842.20	19961.00	0.06	69164.36	3890.00	23851.00	7882.00	0.00	7882.00		
25	KSRB 9.5-3 : Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors, styles and rails of 40mm thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)	Sqm	3.78	4555.18	17219.00	6.40	4.73	4555.18	21524.00	1.68	4149.40	6951.00	28475.00	11256.00	0.00	11256.00		
26	Supply and fixing of door frame made of hollow extruded PVC Section (Nandi or Equivalent) having dimension of 40x57mm with the wall thickness of 2mm+/-0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2corners shall be metric cut/ welded.	Rmt	12.00	272.70	3273.00	27.50	15.00	272.70	4091.00	12.50	272.70	3409.00	7500.00	4227.00	0.00	4227.00		
27	Providing fixtures with made brass /SS CP of appoved quality for Main doors, Internal and Toilet doors.). (Hinges 5" heavy duty,Door Lock, Tower Bolt 300mm long, Aluminum handles - 15cms,Locking rrangements,40mm Screws"). (Material Components)	No.	2.00	3190.46	6381.00	4.00	2.50	3190.46	7977.00	1.50	2641.49	3963.00	11940.00	5559.00	0.00	5559.00		
28	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail. Panelling of 5mm thick PVC sheet fitted in the M.S. Frame. Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges.	Sqm	3.15	3029.15	9542.00	7.50	3.94	3029.15	11928.00	3.56	3029.15	10792.00	22720.00	13178.00	0.00	13178.00		
30	KSRB15-3 : Providing 18mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	132.76	267.25	35481.00	520.93	165.95	267.25	44351.00	354.98	267.25	94867.00	139218.00	103737.00	33000.00	70737.00		
32	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification Area to be considered - a) 100% for fresh surface, b) Upto 10 % for repainting.	Sqm	242.90	85.08	20666.00	247.91	247.91	85.08	21093.00	0.00	0.00	0.00	21093.00	427.00	0.00	427.00		
34	KSRB15-16.2 Providing and finishing external walls with in two coats with water proof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortardrops and other foreign matter cost of material labour complete as per specifications with primer	Sqm	132.76	111.26	14771.00	512.14	165.95	111.26	18464.00	346.19	111.26	38518.00	56982.00	42211.00	0.00	42211.00		
35	KSRB 15-17.4 : Applying priming coat over new wood surface and/or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.	Sqm	3.78	54.54	207.00	6.40	4.73	54.54	258.00	1.68	54.54	92.00	350.00	143.00	0.00	143.00		
36	KSRB 15-17.16 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with coal tor paint to give even shade after cleaning the surface of all durts,dust,and foreign matter, including cost of materials, labour, complete as per specification.	Sqm	3.78	65.45	248.00	6.40	4.73	65.45	310.00	1.68	65.45	110.00	420.00	172.00	0.00	172.00		
37	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.	Sqm	8.10	44.72	363.00	13.58	10.13	44.72	453.00	3.45	44.72	155.00	608.00	245.00	0.00	245.00		
38	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter including cost of materials, labour, complete as per specifications.	Sqm	8.10	103.63	840.00	13.58	10.13	103.63	1050.00	3.45	103.63	358.00	1408.00	568.00	0.00	568.00		

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			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amt						
39	KSRB 10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm thick weight 0.659 kg/m, and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg/m, shutter outer side 40mmx18mm, 1.25mm thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc., and providing and fixing 5.5mm thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, rawl plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for	Sqm	8.10	4653.35	37693.00	13.58	10.13	4653.35	47116.00	3.45	4611.90	15927.00	63043.00	25350.00	0.00	25350.00		
41	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS 2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS 2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement furry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of	Sqm	10.85	1097.34	11907.00	70.60	13.56	1097.34	14883.00	57.03	1084.26	61839.00	76722.00	64815.00	0.00	64815.00		
43	KSRB 11-6 : Providing & fixing white vitreous china clay , water closet European type (Pedestal type , S-Trap) with black solid plastic seat and lid , CP Brass hinges , rubber buffers, 10 litre white glazed / vitreous china clay low level flushing cistern (all are approved make) with fittings C.I /M.S. Brackets , 40 mm diameter flush bend fittings and clamps over flow arrangement with specials and 25 mm mosquito proof coupling of approved design , painting of fittings and brackets ,cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications.	Each	1.00	5243.48	5244.00	4.00	1.25	5243.48	6555.00	2.75	5243.48	14420.00	20975.00	15731.00	0.00	15731.00		
44	KSRB 11-11.4 : Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Unit	2.00	3295.31	6591.00	6.00	2.50	3295.31	8239.00	3.50	3295.31	11534.00	19773.00	13182.00	0.00	13182.00		
45	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Each	1.00	3350.94	3351.00	2.00	1.25	3350.94	4189.00	0.75	3350.94	2514.00	6703.00	3352.00	0.00	3352.00		
46	KSRB 13-6.1-2:Providing and fixing in position brass bib cock of approved quality 25 mm dia nominal bore including cost of materials, labour HOM of equipments with all leads complete with specifications	Each	4.00	257.43	1030.00	14.00	5.00	257.43	1288.00	9.00	257.43	2317.00	3605.00	2575.00	0.00	2575.00		
50	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in CC 1:2:4 as per directions of 12.5cms x 7.5cms (Rate is inclusive of cost of materials and fixtures and conveyanceof materials to work spot)	Each	6.00	310.88	1866.00	13.00	7.50	310.88	2332.00	5.50	310.88	1710.00	4042.00	2176.00	0.00	2176.00		

															70826.00		0.00			

NAME OF [redacted] BRUHAT BANGALORE MAHANA[illegible]

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			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amt						
52	KS[redacted]5.3 Constructing brick masonry circular type manhole 1.22 m internal dia at bottom, 1.68 m deep and 0.56m dia at top, with table moulded and non modular bricks of class designation 50 in cement mortar 1:4, inside cement plaster 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and down size granite metal and making necessary channel in cement concrete M 15 with 20mm and down size granite metal, finished with a floating coat of neat cement, with S.F.R.C cover and frame (heavy duty HD-20 grade designation) 560mm internal diameter confirming to IS 12592, total weight length of cover and frame to be not less than 182 kg, fixed in cement concrete M 15 20mm and down size broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately)	No.	1.00	31980.07	31981.00	3.00	1.25	31980.07	39976.00	1.75	31980.07	55966.00	95942.00	63961.00	0.00	63961.00		
55	Providing and fixing CPVC pipes confirming to IS 15778 , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mt spacing . This includes jointing of pipes and fittings with one stepCPVC Solvent cement and cost of cutting chases and making good the same including testing of joints complete (concealed work including cutting chasea and good the walls etc) 25mm dia	Rmt	15.00	195.25	2929.00	350.00	18.75	195.25	3661.00	331.25	195.25	64678.00	68339.00	65410.00	0.00	65410.00		
56	KSRB-13-6.2-4 Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications (	Each	6.00	151.62	910.00	21.00	7.50	151.62	1138.00	13.50	151.62	2047.00	3185.00	2275.00	0.00	2275.00		
59	KSRB 12-1.2 Providing and laying in position to required level or slope 150mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints, including cost of materials, labour charges complete as per specifications. Specification	Rmt	6.00	401.41	2409.00	35.00	7.50	401.41	3011.00	27.50	401.41	11039.00	14050.00	11641.00	0.00	11641.00		
63	KSRB - 13-7-1.4 Providing and fixing 50mm dia nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials,labour charges,HOM of equipments and testing complete as per specifications	No.	2.00	1450.76	2902.00	5.00	2.50	1450.76	3627.00	2.50	1450.76	3627.00	7254.00	4352.00	0.00	4352.00		
64	KSRB - 13-11.1 Providing and placing on terrace polyethylene water storage tanks (1000 ltr capacity)	No.	1.00	7447.98	7448.00	2.00	1.25	7447.98	9310.00	0.75	7447.98	5586.00	14896.00	7448.00	0.00	7448.00		
73	Concealed Conduit System: Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick confirmingto IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary.(Page No. 2, Item No 1.2.1 & 1.2.2)a) 19/20mm dia 2mm thicka) 19/20mm dia 2mm thick	Mtr	40.00	40.40	1616.00	440.00	50.00	40.40	2020.00	390.00	40.40	15756.00	17776.00	16160.00	0.00	16160.00		
74	Concealed Conduit System: Supplying heavy guage PVC conduit pipe ... mm dia ...mm thick confirmingto IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary.(Page No. 2, Item No 1.2.1 & 1.2.2)a) 19/20mm dia 2mm thickb) 25mm dia 2mm thick	Mtr	60.00	53.53	3212.00	288.00	75.00	53.53	4015.00	213.00	53.53	11402.00	15417.00	12205.00	0.00	12205.00		
75	Supplying heavy guage PVC conduit pipe mm dia mm thick with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, by groove cutting in wall and fixing by using U or J hooks and cement plastering up to the wall surface and run with 18SWG GI fish wire through out the conduit where ever necessary. a) 19/20mm dia 2mm thick	Mtr	45.00	51.51	2318.00	150.00	56.25	51.51	2898.00	93.75	51.51	4830.00	7728.00	5410.00	0.00	5410.00		
87	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. a) 6Amps one way	Each	15.00	70.70	1061.00	27.00	18.75	70.70	1326.00	8.25	70.70	584.00	1910.00	849.00	0.00	849.00		
96	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A ,1.5 sqmm	Mtr	55.00	20.71	1140.00	3150.00	68.75	20.71	1424.00	3081.25	20.71	63798.00	65222.00	64082.00	0.00	64082.00		
97	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A ,2.5 sqmm	Mtr	55.00	32.32	1778.00	2250.00	68.75	32.32	2222.00	2181.25	32.32	70498.00	72720.00	70942.00	0.00	70942.00		

BANGALORE MAHANAGARA PALIKE

PROJECT: Construction of Open Air Th...

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			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amt						
99	...or lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A 6 sqmm	Mtr	44.00	70.70	3111.00	270.00	55.00	70.70	3889.00	215.00	70.70	15201.00	19090.00	15979.00	0.00	15979.00		
132	Supply of 2'x2' LED recessed luminaire with Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition. LED modular down light 2'x2'-55 watts	Each	2.00	5656.00	11312.00	6.00	2.50	5656.00	14140.00	3.50	5656.00	19796.00	33936.00	22624.00	0.00	22624.00		
133	Fabricating, supplying and erecting swaged tubular pole of height Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch. The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 10Mt (5Mt Hb.165.1mm dia 4.85mm thick x3M Hm. 139.7mm dia 4.50mm thick x 2M Ht.114.3mm dia 3.65mm thick) as per IS 410 SP 47	Each	4.00	16887.20	67549.00	10.00	5.00	16887.20	84436.00	5.00	16887.20	84436.00	168872.00	101323.00	0.00	101323.00		
149	KSRB 4-1.6 : Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs. with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459cum. machine mixed concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour. HOM curing complete as per specifications	Cum	8.10	5914.32	47906.00	22.05	10.13	5914.32	59883.00	11.93	6457.22	77015.00	136898.00	88992.00	40477.00	48515.00		
151	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm X 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm X 6mm and 16 X16mm Suare roads for verticals alternatively spaced at 4cms c/c in two halves and 40mm X 6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as er specification	Sqm	10.00	3285.49	32855.00	20.41	12.50	3285.49	41069.00	7.91	3285.49	25976.00	67045.00	34190.00	0.00	34190.00		
195	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	No.	98.00	436.80	42807.00	306.00	122.50	436.80	53508.00	183.50	436.80	80154.00	133662.00	90855.00	0.00	90855.00		
196	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8	Sqm	15.40	85.65	1320.00	48.11	19.25	85.65	1649.00	28.86	85.65	2472.00	4121.00	2801.00	0.00	2801.00		
	Grand total				**2310077.00**				**2880888.00**				**6611024.00**	**4300947.00**		**3295682.00**		

Note: Percentage of Workslip over the sanctioned Estimate=Excess amount over the approved amount/Amount Put to tender x 100

(3295682.00/22001730.00)x100= 14.98%

Percentage of Workslip 14.98 %

Contractor

Assistant Engineer

Assistant Executive Engineer 30/9/2023

Executive Engineer

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ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

RATE ANALYSIS

Agency	Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149
Approved Amount	22001730.00
Name of Contractor:-	Sri. S D Venkatesh Gowda
Tender premium:-	(+) 1% (Above)

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
2	KSRB 2-2.2 Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.	Cum	Pg No 6 of KPWD S.R 2018-19	2.4	449.00	-	449.00	35.92	484.92	4.85	489.77
4	KSRB 4-1.3 Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs. with 40mm and down size graded granite metal coarse aggregates @0.85 cum and fine aggregtes @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation. including cost of all materials,labour, HOM of machinery,curing complete as per specifications	Cum	Pg No 13 of KPWD S.R 2018-19	4.3	5102.00	-	5102.00	408.16	5510.16	55.10	5565.26
6	KSRB 2.3 Filling available excavated earth (excluding rock) in sides of foundations upto plinthin layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming afterwatering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as perspecifications	Cum	Pg No 7 of KPWD S.R 2018-19	2.10	201.00	-	201.00	16.08	217.08	2.17	219.25
7	KSRB 5.2.2 Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2 m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	Pg No 25 of KPWD S.R 2018-19	5.5	4494.00	-	4494.00	359.52	4853.52	48.54	4902.06
9	KSRB 4-6.1 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.	Sqm	Pg No 16 of KPWD S.R 2018-19	4.28	258.00	-	258.00	20.64	278.64	2.79	281.43

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
12	KSRB 4-6.2 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specificaiton	Sqm	Page No. 16 of KPWD S.R 2018-19	4.29.2	400.00	-	400.00	32.00	432.00	4.32	436.32
16	KSRB 5-14 Providing and constructing non load bearing wall with solid concrete blocks having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No. 5.4 with solid concrete blocks of size 40X20X20cm	Sqm	Pg No 27 of KPWD S.R 2018-19	5.26.1	962.00	-	962.00	76.96	1038.96	10.39	1049.35
18	Providing and fixing granite flooring in combination of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thicl (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification.	Sqm	Pg No 111 of KPWD S.R 2018-19	14.58	3449.00	-	3449.00	275.92	3724.92	37.25	3762.17
21	Providing and laying pattern flooring for staircase treads and risers using the combination of 20mm thick ruby red granite @ 66%,20 mm thick grey granite @ 20%, 20mm thick, 20mm thick black granite 14%. The granite materials are laid on existing bed of CM 1:3 20mm thick pointed with colour pigment, including full rounding for nosing, flaming the ruby red granite for 50 mm wide curing etc., complete as per specification.	Sqm	Pg No 109 of KPWD S.R 2018-19	14.46	7168.00	-	7168.00	573.44	7741.44	77.41	7818.85
22	KSRB 14.14-5 : Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. Specification No. KBS, (Ceramic anti skid Tiles of size 400 x 400mm on a bed of 20 mm thick).	Sqm	Pg No 108 of KPWD S.R 2018-19	14.36.3	1269.00	-	1269.00	101.52	1370.52	13.71	1384.23

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
	...cavated stuff to a distance not ... and trenches of pipe lines and cables) ... (other than foundation of ...						70826.00	0.00			
24	KSRB9.4.1-Providing Math/Nandi wood frames of doors ,windows, clerestory windows, ventilatorsand other frames,wroughtframed or assembled including making plaster grooves(excluding cost of cement concrete and side clamps),but including cost of materials,labour ,HOM of machineries, complete as per specifications.	Cum	Pg No 53 of KPWD S.R 2018-19	9.12	63407.00	-	63407.00	5072.56	68479.56	684.80	69164.36
25	KSRB 9.5-3 : Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)	Sqm	Pg No 53 of KPWD S.R 2018-19	9.16	3804.00	-	3804.00	304.32	4108.32	41.08	4149.40
26	Supply and fixing of door frame made of hollow extruded PVC Section (Nandi or Equivalent) having dimension of 40x57mm with the wall thickness of 2mm+/-0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2corners shall be metric cut/ welded..	m	Pg No 61 of KPWD S.R 2018-19	9.88	250.00	-	250.00	20.00	270.00	2.70	272.70
27	Providing fixtures with made brass /SS CP of appoved quality for Main doors, Internal and Toilet doors,), (Hinges 5" heavy duty,Door Lock, Tower Bolt 300mm long, Aluminum handles - 15cms,Locking Arrangements.40mm Screws"). (Material Components)	Nos.	Pg No XV & XVI of KPWD S.R 2018-19	378, 385, 386, 390, 392, 404, 407	2615.34	-	2615.34	-	2615.34	26.15	2641.49
28	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges.	Sqm	Pg No 60 of KPWD S.R 2018-19	9.83	2777.00	-	2777.00	222.16	2999.16	29.99	3029.15
30	KSRB15-3 : Providing 18mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	Page No. 116 (PWD, S.R. 2018-19)	15.17	245.00	-	245.00	19.60	264.60	2.65	267.25

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
34	KSRB15-16.2: Providing and finishing external walls with in two coats with water proof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortardrops and other foreign matter cost of material labour complete as per specifications with primer.	Sqm	Pg No 120 of KPWD S.R 2018-19	15.53.2	102.00	-	102.00	8.16	110.16	1.10	111.26
35	KSRB 15-17.4 : Applying priming coat over new wood surface and/or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.	Sqm	Pg No 121 of KPWD S.R 2018-19	15.58	50.00	-	50.00	4.00	54.00	0.54	54.54
36	KSRB 15-17.16 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with coal tor paint to give even shade after cleaning the surface of all durts,dust,and foreign matter, including cost of materials, labour, complete as per specification.	Sqm	Pg No 122 of KPWD S.R 2018-19	15.68	60.00	-	60.00	4.80	64.80	0.65	65.45
37	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.	Sqm	Pg No 123 of KPWD S.R 2018-19	15.73	41.00	-	41.00	3.28	44.28	0.44	44.72
38	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	Sqm	Pg No 123 of KPWD S.R 2018-19	15.74	95.00	-	95.00	7.60	102.60	1.03	103.63

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Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
39	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar. aluminium sections pretreated for removal of	Sqm	Pg No 35 of KPWD S.R 2018-19	7.10.1	4228.00	-	4228.00	338.24	4566.24	45.66	4611.90
41	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square.	Sqm	Pg No 68 of KPWD S.R 2018-19	10.2	994.00	-	994.00	79.52	1073.52	10.74	1084.26

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.	Remarks
43	KSRB 11-6: Providing & fixing white vitreous china clay , water closet European type (Pedestal type , S-Trap) with black solid plastic seat and lid , CP Brass hinges , rubber buffers, 10 litre white glazed / vitreous china clay low level flushing cistern (all are approved make) with fittings C.I. /M.S. Brackets , 40 mm diameter flush bend fittings and clamps over flow arrangement with specials and 25 mm mosquito proof coupling of approved design , painting of fittings and brackets ,cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications.	Each	Pg No 79 of KPWD S.R 2018-19	12.6	4807.00	-	4807.00	384.56	5191.56	51.92	5243.48	
44	KSRB 11-11.4 : Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Unit	Pg No 83 of KPWD S.R 2018-19	12.26	3021.00	-	3021.00	241.68	3262.68	32.63	3295.31	
45	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern. C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Each	Pg No 80 of KPWD S.R 2018-19	12.7	3072.00	-	3072.00	245.76	3317.76	33.18	3350.94	
46	KSRB 13-6,1-2:Providing and fixing in position brass bib cock of approved quality 25 mm dia nominal bore including cost of materials, labour HOM of equipments with all leads complete with specifications	Each	Pg No 93 of KPWD S.R 2018-19	13.25	236.00	-	236.00	18.88	254.88	2.55	257.43	
50	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in CC 1:2:4 as per directions of 12.5cms x 7.5cms (Rate is inclusive of cost of materials and fixtures and conveyanceof materials to work spot).	Each	Pg No 90 of KPWD S.R 2018-19	12.113.2	285.00	-	285.00	22.80	307.80	3.08	310.88	

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	(+)1%	
52	KSRB 12-5.3 : Constructing brick masonry circular type manhole 1.22 m internal dia at bottom, 1.68 m deep and 0.56m dia at top, with table moulded and non modular bricks of class designation 50 in cement mortar 1:4, inside cement plaster 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and down size granite metal and making necessary channel in cement concrete M 15 with 20mm and down size granite metal, finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter confirming to IS :12592, total weight length of cover and frame to be not less than 182 kg, fixed in cement concrete M 15 20mm and down size broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately)	Nos.	Pg No 74 of KPWD S.R 2018-19	11.39	29318.00	-	29318.00	2345.44	31663.44	316.63	31980.07
55	Providing and fixing CPVC pipes confirming to IS 15778 , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mt spacing . This includes jointing of pipes and fittings with one stepCPVC Solvent cement and cost of cutting chases and making good the same including testing of joints complete (concealed work including cutting chasea and good the walls etc.) 25mm dia	m	Pg No 99 of KPWD S.R 2018-19	13.87.3	179.00	-	179.00	14.32	193.32	1.93	195.25
56	KSRB-13-6.2-4 Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.(	Each	Pg No 93 of KPWD S.R 2018-19	13.29	139.00	-	139.00	11.12	150.12	1.50	151.62
59	KSRB 12-1.2 : Providing and laying in position to required level or slope 150mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints, including cost of materials, labour charges complete as per specifications. Specification	m	Pg No 72 of KPWD S.R 2018-19	11.2	368.00	-	368.00	29.44	397.44	3.97	401.41
63	KSRB - 13-7-1.4 Providing and fixing 50mm dia nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials,labour charges,HOM of equipments and testing complete as per specifications	Nos.	Pg No 95 of KPWD S.R 2018-19	13.55	1330.00	-	1330.00	106.40	1436.40	14.36	1450.76
64	KSRB - 13-11.1 Providing and placing on terrace , polyethylene water storage tanks (1000 ltr capacity)	Nos.	Pg No 96 of KPWD S.R 2018-19	13.78	6828.00	-	6828.00	546.24	7374.24	73.74	7447.98

	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
73	Concealed Conduit System: Supplying heavy guage PVC conduit pipe …mm dia ...mm thick confirmingto IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary.(Page No. 2, Item No.1.2.1 & 1.2.2)a) 19/20mm dia 2mm thicka) 19/20mm dia 2mm thick	Mtr	Pg No 2 of PWD Ele. S.R 2018-19	1.2.1	40.00	-	40.00	-	40.00	0.40	40.40
74	Concealed Conduit System: Supplying heavy guage PVC conduit pipe …mm dia ...mm thick confirmingto IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary.(Page No. 2, Item No.1.2.1 & 1.2.2)a) 19/20mm dia 2mm thickb) 25mm dia 2mm thick	Mtr	Pg No 2 of PWD Ele. S.R 2018-19	1.2.2	53.00	-	53.00	-	53.00	0.53	53.53
75	Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc. by groove cutting in wall and fixing by using U or J hooks and cement plastering up to the wall surface and run with 18SWG GI fish wire through out the conduit where ever necessary.a) 19/20mm dia 2mm thick	Mtr	Pg No 2 of PWD Ele. S.R 2018-19	1.3.1	51.00	-	51.00	-	51.00	0.51	51.51
87	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. a) 6Amps one way	Each	Pg No 10 of PWD Ele. S.R 2018-19	3.6.1	70.00	-	70.00	-	70.00	0.70	70.70
96	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A .1.5 sqmm	Mtr	Pg No 5 of PWD Ele. S.R 2018-19	2.3.2	20.50	-	20.50	-	20.50	0.21	20.71
97	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A .2.5 sqmm	Mtr	Pg No 6 of PWD Ele. S.R 2018-19	2.3.3	32.00	-	32.00	-	32.00	0.32	32.32
99	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A . 6 sqmm	Mtr	Pg No 6 of PWD Ele. S.R 2018-19	2.3.5	70.00	-	70.00	-	70.00	0.70	70.70

	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
132	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition .LED modular down light 2'x2'-55 watts	No	Pg No 65 of PWD Ele. S.R 2018-19	12.6.3	5600.00	-	5600.00	-	5600.00	56.00	5656.00
133	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch. The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 10Mt (5Mt Hb.165.1mm dia 4.85mm thick x3M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 47	Each	Pg No 13 of PWD Ele. S.R 2018-19	4.1.2	16720.00	-	16720.00	-	16720.00	167.20	16887.20
149	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.	Cum	Pg No 13 of KPWD S.R 2018-19	4.6	5919.71	-	5919.71	473.58	6393.29	63.93	6457.22

	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
151	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm X 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm X 6mm and 16 X16mm Suare roads for verticals alternatively spaced at 4cms c/c in two halves and 40mm X 6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as er specification.	Sqm	Pg No 45 of KPWD S.R 2018-19	7.37	3012.00	-	3012.00	240.96	3252.96	32.53	3285.49
195	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	No.	Pg No 27 of KPWD S.R 2018-19	5.30	408.00	-	408.00	24.48	432.48	4.32	436.80
196	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8	Sqm	Pg No 180 of KPWD S.R 2018-19	24.10	80.00	-	80.00	4.80	84.80	0.85	85.65
	EIRL										
E2	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.(The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	Pg No 17 of KPWD S.R 2021-22	2.4.2	5968.00	-	5968.00	596.80	6564.80	65.65	6630.45

	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
E7	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	Pg No 41 of KPWD S.R 2021-22	8.2.1	248.00	-	248.00	24.80	272.80	2.73	275.53
E8	Providing half nosing for 40mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work. HOM etc., complete as per specification	m	Pg No 111 of KPWD S.R 2018-19	14.54	360.00	-	360.00	28.80	388.80	3.89	392.69
E9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes. having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement. trenching. refilling & testing of joints complete as per direction of Engineer in Charge. External work 40mm nominal dia pipes	m	Corrigenda 1st - dt. 21-04-2022	13.33.5	469.00	-	469.00	46.90	515.90	5.16	521.06
E10	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 10mm diameter	Nos.	Pg No 116 of KPWD S.R 2021-22	13.9.1	202.00	-	202.00	20.20	222.20	2.22	224.42
E11	Supplying ...litres capacity vertical/horizontal type wall mounting Electrical water heater with 22 SWG copper/SS sheet metal inner Container tinned inside and anticorrosive paint outside and 20 SWG M.S. sheet metal outer cover filled with glass wool between inner and outer container for thermal insulation complete. The inlet and outlet pipes so arranged that water flow inside results in water to flow out from the inner container without turbulence. The Inner container shall have direct immersion type copper tube nickel plate .2KW capacity element with a neon indicator fitted with 20A capacity 25 to 85 degree Centigrade range thermostat. The water heater shall completely be wired with 40/0.0076 inch 3 core copper flexible wire of 1.5 meters length and the outer container provided with heavy gauge brackets for wall mounting. 25Litres	Each	Pg No 26 of PWD Ele. S.R 2021-22	7.1.3	10613.00	-	10613.00	-	10613.00	106.13	10719.13

BRUHAT BANGALORE MAHANAGARA

NAME OF WORK : Construction of Open Air Theater at Ward No.07 in Byatarayanapur

Bagalur Post, Jal

	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
E12	Supplying & fixing - flexible LED Strip Light .....W Power consumption in 5mtrs length CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver non integrated, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved with 2 years Warranty against any manufacturing defect working under standard electrical condition.	m	Pg No 33 of PWD Ele. S.R 2021-22	11.1	1787.00	-	1787.00	-	1787.00	17.87	1804.87
E13	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 12" Sweep (300mm)	Each	Pg No 22 of PWD Ele. S.R 2021-22	6.2.1	2997.00	-	2997.00	-	2997.00	29.97	3026.97
E14	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 9W, 6500K	Each	Pg No 38 of PWD Ele. S.R 2021-22	11.11.4	160.00	-	160.00	-	160.00	1.60	161.60
E15	Acrylic Synthetic Paint for Basket Ball Court and PVC Flooring for Badminton Court, - Providing and Laying of ITF Certified 5 layers of Acrylic Synthetic Standard System including primer, Resurfacer and Approved colour and Line marking as per international standard. - Providing and Laying of PVC Sports Flooring of 6.5mm thick as per direction of Engineer in Charge. - Providing and Laying of Foam of 8.00 mm thick beneath PVC Sports Flooring as per direction of Engineer in Charge.	Sqm	Data Rate	-	3713.00	-	3713.00	-	3713.00	37.13	3750.13
E16	Providing and Installing mirror, including cost of all materials like plywood, gum, screw, beeding etc., and all lead & lift, transportation and labour charges. The cost also includes all applicable taxes., complete as per direction of engineer in charge.	Sqm	Data Rate	-	19200.00	-	19200.00	-	19200.00	192.00	19392.00

	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
E17	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	kg	Pg No 81 of KPWD S.R 2021-22	11.16.3	110.00	-	110.00	11.00	121.00	1.21	122.21
E18	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	kg	Pg No 83 of KPWD S.R 2021-22	11.28	500.00	-	500.00	50.00	550.00	5.50	555.50
E19	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:comfirming to latest amendments.4 Sqmm	m	Pg No 3 of PWD Ele. S.R 2021-22	2.3.4	59.00	-	59.00	-	59.00	0.59	59.59
E20	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for: PVC pipes 110mm dia., 6 kg/sqcm & class 3	m	Pg No 134 of KPWD S.R V-5 2021-22	1.7	394.00	-	394.00	31.52	425.52	4.26	429.78

Sl No	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW % (Above)	Total Rate	T.P (+)1%	Final Rate.	Whether it alter n ter addi ite
E21	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for: PVC pipes 140mm dia., 6 kg/sqcm & class 3	m	Pg No 134 of KPWD S.R V-5 2021-22	1.8	567.00	-	567.00	45.36	612.36	6.12	618.48	
E22	Fixing and Installation of Double Shoulder Press Station: Size - 132 X 88 X 144 CM, that must contain of two ARM MODULES Angular resistance, bearingless module) that works as dual action [push and pull/extension & contraction) connected to a main center pillar of OD 89mm of min 3mm thickness. The A.R.M must be bearingless, shock less, drop less and provide 0-30 kg resistance. The seats are fixed to the main post and do not move up and down-(Seats are immovable) to ensure it is safe & stable, zero drops and support disabled people to use the product without risk of falling or slipping off. Finishing to be Metalized/Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. The handles are of 3mm Endu-Rubber with aluminum cap locking anti vandal system. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Safe Zone 432 X 388 CM. Inclusive of All Taxes and Transportation Charges	Each	Data Rate	19	379270.00	-	379270.00	-	379270.00	3792.70	383062.70	

Tender premium:- Sri. S D Venkatesh Gowda

(+) 1% (Above)

	Description.	Unit	Page	Item	Basic rate	Lift charges	Total	AW %	Total Rate	T.P (+)1%	Final Rate.
E23	Supplying and Installation of a two person ski trainer machine. Size- 1940 X 510 X 1462 CM, that is a fabricated unit of four curved handrails that is affixed to a base frame and all of which are supported by two main central pillars made from 39mm OD & 3mm min wall thickness aesthetically curved arc tube with minimal deformation and without convex sides. The unit consists of high grade fulfoot moulded foot rests made of high grade LLDPE. The arms are limited in movement as per international safety norms by the use of safe stopper [limiter]. The systems has 3mm Endu-Rubber handles with aluminum cap locking ant vandal system. All fasteners to be of 304 stainless. Torx Anti Vandal Fasteners. All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized Plasma zinc injection + Dupont Alesta outdoor use color powder electrostatic coating. Safe Zone: 490 X 350 CM. Inclusive of All Taxes and Transportation Charges:	Each	Data Rate	27	343717.00	-	343717.00	-	343717.00	3437.17	347154.17

Asst Engineer

Executive Engineer

...ing the excavated stuff to a distance not exceeding 50 m and ...

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : Construction of Open Air Theater at Ward No.07 in Byatarayanapura Assembly Constituency

Agency	**Sri. S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Bangalore-562149**
	EIRL-2
Approved Amount	**22001730.00**
Name of Contractor:-	**Sri. S D Venkatesh Gowda**
Tender premium:-	**(+) 1% (Above)**

Sl No	Item Of Work	Unit	Estimate qty	Rate from EIRL Rate analysis	Amount (Rs.)	Whether the item alternative in tender or additional items	Whether the extra item is included in sanctioned estimate	How the Cost is proposed to be met	Whether extra item is included in S.R.	Remarks
1	2	3	4	5	6	7	8	9	10	11
E2	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.(The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	2.68	6630.45	17799.00	Yes	No	-	Yes	-
E7	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	81.73	275.53	22520.00	Yes	No	-	Yes	-
E8	Providing half nosing for 40mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM etc., complete as per specification	m	221.39	392.69	86936.00	Yes	No	-	Yes	-

Sl No	Item Of Work	Unit	Estimate qty	Rate from EIRL Rate analysis	Amount (Rs.)	Whether the item alternative in tender or additional items	Whether the extra item is included in sanctioned estimate	How the Cost is proposed to be met	Whether extra item is included in S.R.	Remarks
1	2	3	4	5	6	7	8	9	10	11
E9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work 40mm nominal dia pipes	m	40.00	521.06	20843.00	Yes	No	-	Yes	-
E10	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 10mm diameter	Nos.	2.00	224.42	449.00	Yes	No	-	Yes	-
E11	Supplying ...litres capacity vertical/horizontal type wall mounting Electrical water heater with 22 SWG copper/SS sheet metal inner Container tinned inside and anticorrosive paint outside and 20 SWG M.S. sheet metal outer cover, filled with glass wool between inner and outer container for thermal insulation complete. The inlet and outlet pipes so arranged that water flow inside results in water to flow out from the inner container without turbulence. The Inner container shall have direct immersion type copper tube nickel plate .2KW capacity element with a neon indicator fitted with 20A capacity 25 to 85 degree Centigrade range thermostat. The water heater shall completely be wired with 40/0.0076 inch 3 core copper flexible wire of 1.5 meters length and the outer container provided with heavy gauge brackets for wall mounting. 25Litres	Each	2.00	10719.13	21439.00	Yes	No	-	Yes	-
E12	Supplying & fixing - flexible LED Strip Light .....W Power consumption in 5mtrs length CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver non integrated, with PF > 0.95. power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved with 2 years Warranty against any manufacturing defect working under standard electrical condition.	m	227.53	1804.87	410663.00	Yes	No	-	Yes	-
E13	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 12" Sweep (300mm)	Each	4.00	3026.97	12108.00	Yes	No	-	Yes	-

Sl No	Item Of Work	Unit	Estimate qty	Rate from EIRL Rate analysis	Amount (Rs.)	Whether the item alternative in tender or additional items	Whether the extra item is included in sanctioned estimate	How the Cost is proposed to be met	Whether extra item is included in S.R.	Remarks
1	2	3	4	5	6	7	8	9	10	11
E14	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K. CRI> 70%. efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%. Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 9W, 6500K	Each	14.00	161.60	2263.00	Yes	No	-	Yes	-
E15	Acrylic Synthetic Paint for Basket Ball Court and PVC Flooring for Badminton Court, - Providing and Laying of ITF Certified 5 layers of Acrylic Synthetic Standard System including primer, Resurfacer and Approved colour and Line marking as per international standard. - Providing and Laying of PVC Sports Flooring of 6.5mm thick as per direction of Engineer in Charge. - Providing and Laying of Foam of 8.00 mm thick beneath PVC Sports Flooring as per direction of Engineer in Charge.	Sqm	312.06	3750.13	1170270.00	Yes	No	-	Yes	-
E16	Providing and Installing mirror, including cost of all materials like plywood, gum, screw, beeding etc., and all lead & lift, transportation and labour charges. The cost also includes all applicable taxes., complete as per direction of engineer in charge.	Sqm	22.33	19392.00	432958.00	Yes	No	-	Yes	-
E17	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	kg	676.97	122.21	82733.00	Yes	No	-	Yes	

Sl No	Item Of Work	Unit	Estimate qty	Rate from EIRL Rate analysis	Amount (Rs.)	Whether the item alternative in tender or additional items	Whether the extra item is included in sanctioned estimate	How the Cost is proposed to be met	Whether extra item is included in S.R.	Remarks
1	2	3	4	5	6	7	8	9	10	11
E18	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	kg	79.20	555.50	43996.00	Yes	No	-	Yes	-
E19	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:comfirming to latest amendments.4 Sqmm	m	1440.00	59.59	85810.00	Yes	No	-	Yes	-
E20	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for: PVC pipes 110mm dia., 6 kg/sqcm & class 3	m	195.00	429.78	83807.00	Yes	No	-	Yes	-

Sl No	Item Of Work	Unit	Estimate qty	Rate from EIRL Rate analysis	Amount (Rs.)	Whether the item alternative in tender or additional items	Whether the extra item is included in sanctioned estimate	How the Cost is proposed to be met	Whether extra item is included in S.R.	Remarks
1	2	3	4	5	6	7	8	9	10	11
E21	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for: PVC pipes 140mm dia., 6 kg/sqcm & class 3	m	108.00	618.48	66797.00	Yes	No	-	Yes	-
E22	Fixing and Installation of Double Shoulder Press Station: Size -132 X 88 X 144 CM, that must contain of two ARM MODULES Angular resistance, bearingless module) that works as dual action [push and pull/extension & contraction) connected to a main center pillar of OD 89mm of min 3mm thickness. The A.R.M must be bearingless, shock less, drop less and provide 0-30 kg resistance. The seats are fixed to the main post and do not move up and down-(Seats are immovable) to ensure it is safe & stable, zero drops and support disabled people to use the product without risk of falling or slipping off. Finishing to be Metalized/Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. The handles are of 3mm Endu-Rubber with aluminum cap locking anti vandal system. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Safe Zone 432 X 388 CM. Inclusive of All Taxes and Transportation Charges	Each	1.00	383062.70	383063.00	Yes	No		Data Rate	

Sl No	Item Of Work	Unit	Estimate qty	Rate from EIRL Rate analysis	Amount (Rs.)	Whether the item alternative in tender or additional items	Whether the extra item is included in sanctioned estimate	How the Cost is proposed to be met	Whether extra item is included in S.R.	Remarks
1	2	3	4	5	6	7	8	9	10	11
E23	Fixing and Installation of a two person ski trainer machine: Size-190 X 51 X 162 CM, that is a fabricated unit of four curved handrails that is afixed to a base frame and all of which are supported by two main central pillars made from 39mm OD & 3mm min wall thickness aesthetically curved arc tube with minimal deformation and without convex sides. The unit consists of high grade fullfoot moulded foot rests made of high grade LLDPE. The arms are limited in movement as per international safety norms by the use of safe stopper [limiter]. The systems has 3mm Endu-Rubber handles with aluminum cap locking ant vandal system. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners. All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized/Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. Safe Zone: 490 X 350 CM. Inclusive of All Taxes and Transportation Charges:	Each	1.00	347154.17	347155.00	Yes	No		Data Rate	
	TOTAL EIRL AMOUNT				**3291609.00**					

PERCENTAGE OF EXCESS COMPARING TO SANCTIONED COST $\frac{\textbf{3291609.00}}{\textbf{22001730.00}}$ **x100** = **14.96 %**

Contractor

Assistant Engineer

Assistant Executive Engineer

Executive Engineer

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ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ